

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1 - 6 (Canceled)

Claim 7 (Currently Amended): An antireflection film comprising: a transparent support;

a high refractive index layer comprising a matrix and fine particles of a high refractive index composite oxide, wherein the fine particles of a high refractive index composite oxide are fine particles of a composite oxide containing: a titanium element; and at [[lest]] least one metal element, in which the oxide of the at least one metal element has a refractive index of 1.95 or more, wherein the at least one metal element comprises an element selected from the group consisting of Ta, Zr, In, Nd, Sb, Sn and Bi, and the composite oxide is doped with at least one metal ion selected from the group consisting of Co ion, Zr ion and Al ion;

and a low refractive index layer having a refractive index of less than 1.55, in this order.

Claims 8 - 27 (Canceled)

Claim 28 (Previously Presented): The antireflection film as described in claim 7, which further comprises a hard coat layer between the transparent support and the high refractive index layer.

Claim 29 (Canceled)

Claim 30 (Previously Presented): The antireflection film of claim 7, wherein an average particle size of the fine particles of a high refractive index composite oxide is 100 nm or less.

Claim 31 (Previously Presented): The antireflection film of claim 7, wherein the high refractive index layer includes two layers different from each other in refractive index.

Claim 32 (Previously Presented): The antireflection film of claim 7, wherein the fine particles of a high refractive index composite oxide are surface-treated with at least one compound of an inorganic compound and an organic compound.

Claim 33 (Previously Presented): The antireflection film of claim 7, wherein the matrix contains a cured product of at least one member selected from the group consisting of an organic binder, an organometallic compound and a partial hydrolyzate thereof.

Claim 34 (Previously Presented): The antireflection film of claim 7, wherein the high refractive index layer has a refractive index of 1.75 to 2.4.

Claim 35 (Previously Presented): The antireflection film of claim 7, wherein the high refractive index layer is formed from a composition obtained by dispersing particles of the high refractive index composite oxide using a dispersing agent, in which the dispersing agent is a compound having at least one anionic group selected from the group consisting of a carboxyl group, a sulfo group, a phosphono group and an oxyphosphono group.

Claim 36 (Previously Presented): The antireflection film of claim 35, wherein the dispersing agent is a compound containing a cross-linkable or polymerizable functional group.

Claim 37 (Currently Amended): An antireflection film comprising:
a transparent support;
a high refractive index layer comprising a matrix and fine particles of a high refractive index composite oxide, wherein the fine particles of a high refractive index composite oxide are fine particles of a composite oxide containing: a titanium element; and at least one metal element, in which the oxide of the at least one metal element has a refractive index of 1.95 or more, a major component of the fine particles is of a rutile structure, and the composite oxide is doped with at least one metal ion selected from the group consisting of Co ion and Zr ion; and
a low refractive index layer having a refractive index of less than 1.55, in this order.

Claim 38 (Previously Presented): The antireflection film of claim 37, wherein an average particle size of the fine particles of a high refractive index composite oxide is 100 nm or less.

Claim 39 (Previously Presented): The antireflection film of claim 37, which further comprises a hard coat layer between the transparent support and the high refractive index layer.

Claim 40 (Previously Presented): The antireflection film of claim 37, wherein the high refractive index layer includes two layers different from each other in refractive index.

Claim 41 (Previously Presented): The antireflection film of claim 37, wherein the fine particles of a high refractive index composite oxide are surface-treated with at least one compound of an inorganic compound and an organic compound.

Claim 42 (Previously Presented): The antireflection film of claim 37, wherein the matrix contains a cured product of at least one member selected from the group consisting of an organic binder, an organometallic compound and a partial hydrolyzate thereof.

Claim 43 (Previously Presented): The antireflection film of claim 37, wherein the high refractive index layer has a refractive index of 1.75 to 2.4.

Claim 44 (Previously Presented): The antireflection film of claim 37, wherein the high refractive index layer is formed from a composition obtained by dispersing particles of the high refractive index composite oxide using a dispersing agent, in which the dispersing agent is a compound having at least one anionic group selected from the group consisting of a carboxyl group, a sulfo group, a phosphono group and an oxyphosphono group.

Claim 45 (Previously Presented): The antireflection film of claim 44, wherein the dispersing agent is a compound containing a cross-linkable or polymerizable functional group.